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Purified and Isolated Potassium-Chloride Cotransporter Nucleic Acids and Polypeptides and Therapeutic and Screening Methods Using Same (s): Mount et al. Docket No.: 1242/26/2 Attorney Docket No.: -444444 -444444 1.1.1.1.1. 1000 bp 22250,51311 1314678 362310 568084 IMAGE/TIGR cDNAs (ESTs) 150738 363600 IMAGE cDNAs (ESTs) IMAGE cDNAs (ESTs) Human KCC4 Mouse KCC4 Human KCC2 Full-length cDNA 5'-RACE cDNAs Full-length cDNA RT-PCR cDNAs 698105 RT-PCR cDNA RT-PCR cDNAs 313521 Full-length cDNA - ATG ATG DOBLUCE SCHIOL 44444 1000 bp 1290431 Figure 1 -44444 150620 KCC3a KCC3b I.M.A.GE. cDNAs (EST) Muscle cDNA - KCC3a KCC3b Human KCC3 Mouse KCC3 TIGR cDNA (EST) Full-length cDNA Full-length cDNA RT-PCR cDNAs 5'-RACE cDNA RT-PCR cDNAs . 医猪类的 - ATC -ATG

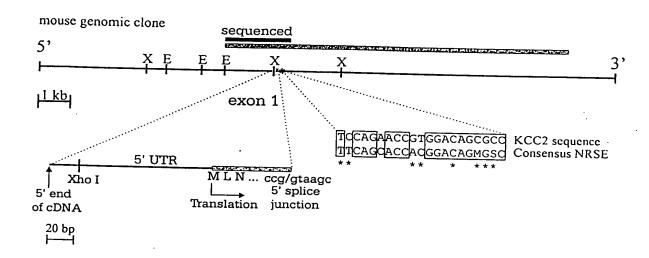
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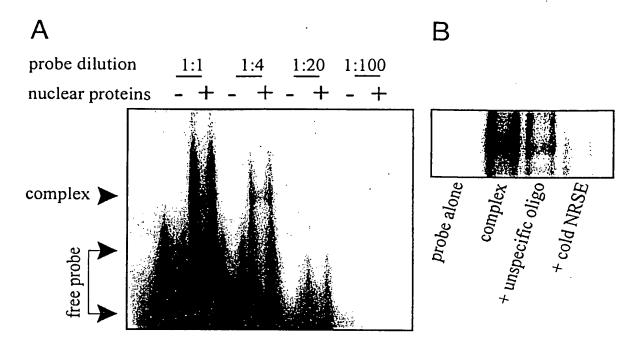
Title: Purified and Isolated Potassium-Chloride Cotransporter
Nucleic Acids and Polypeptides and Therapeutic and
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pplicant(s): Mount et al.
Attorney Docket No.: 1242/26/2

Figure 3



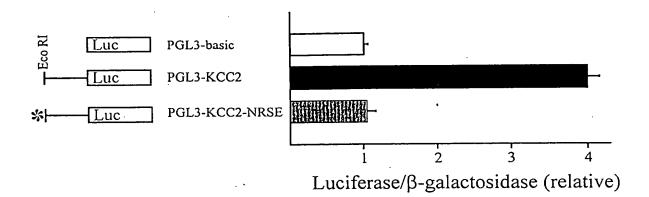
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Nucleic Acids and Polypeptides and Therapeutic and
Screening Methods Using Same
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Figure 4



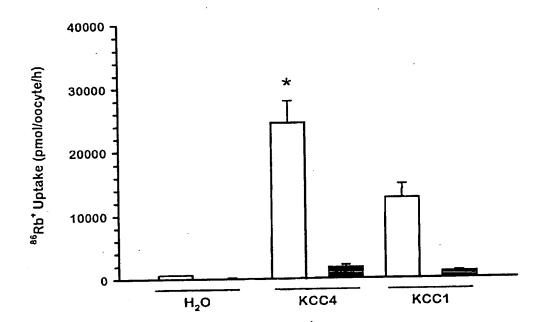
Title: Purified and Isolated Potassium-Chloride Cotransporter Nucleic Acids and Polypeptides and Therapeutic and Screening Methods Using Same ant(s): Mount et al.

Figure 5



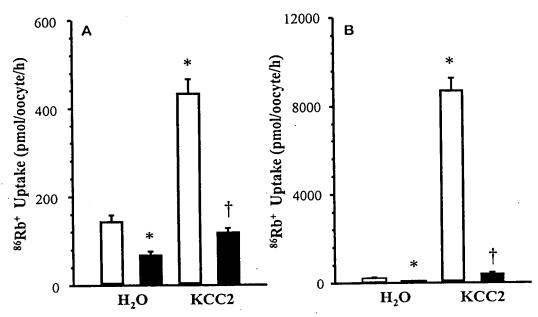
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Figure 6



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Nucleic Acids and Polypeptides and Therapeutic and
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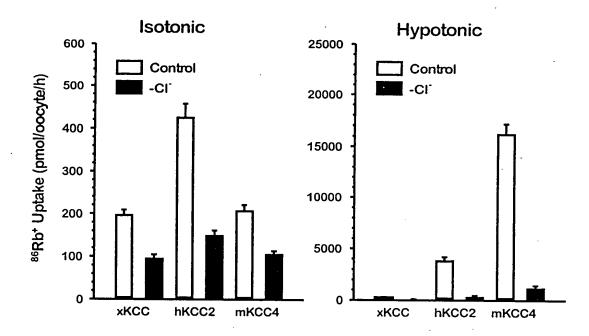
Figure 7



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Figure 8



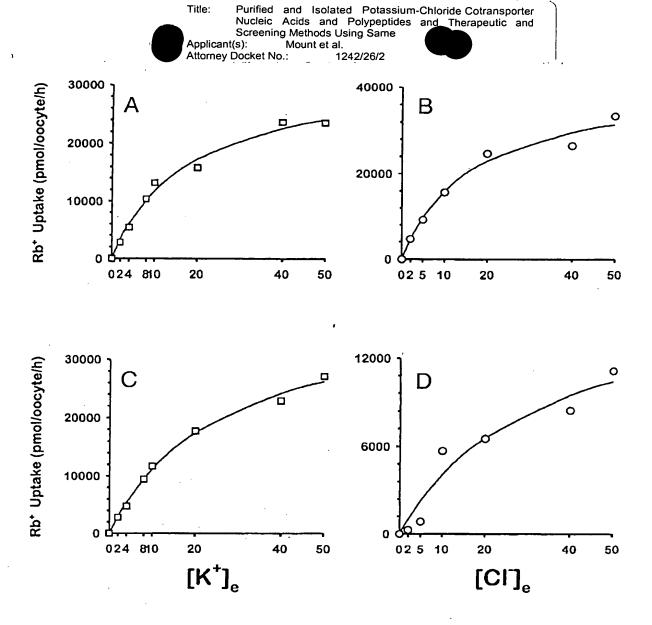


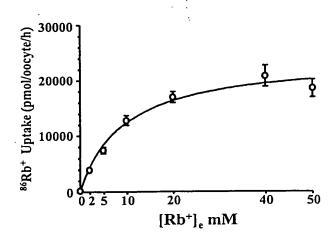
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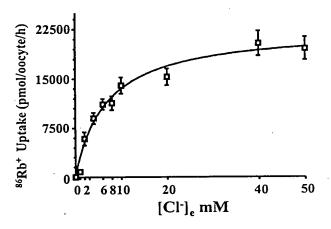
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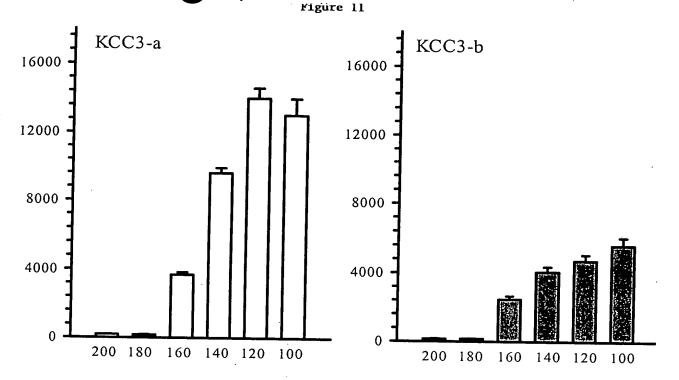
1242/26/2

Figure 10

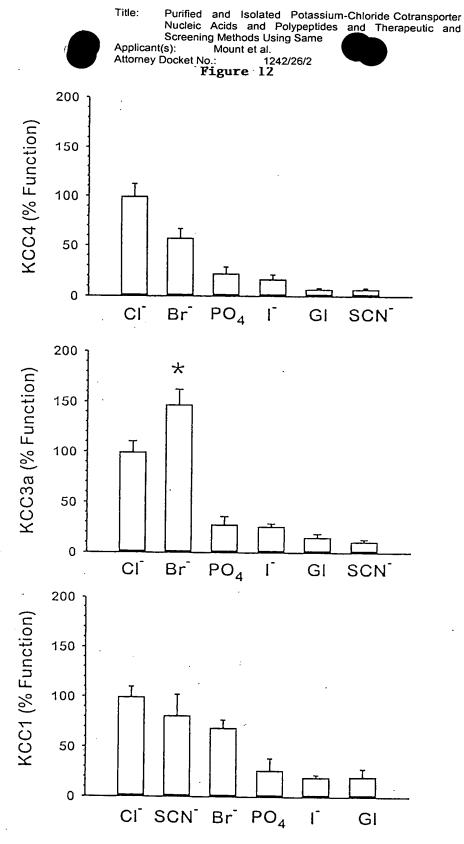




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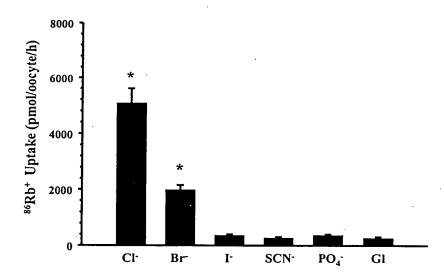


Extracellular Osmolarity (mOsm/Kg)

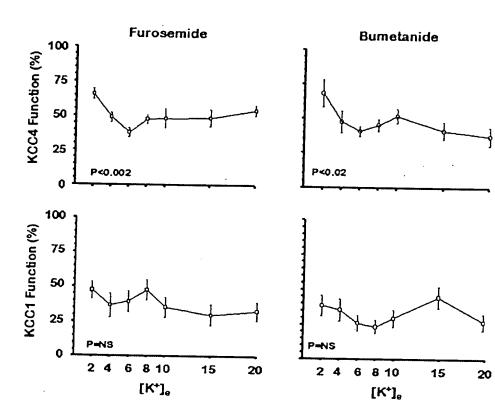


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Nucleic Acids and Polypeptides and Therapeutic and
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Figure 13

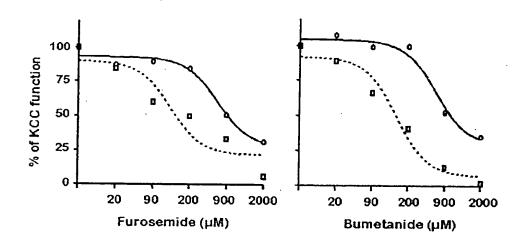


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Figure 14



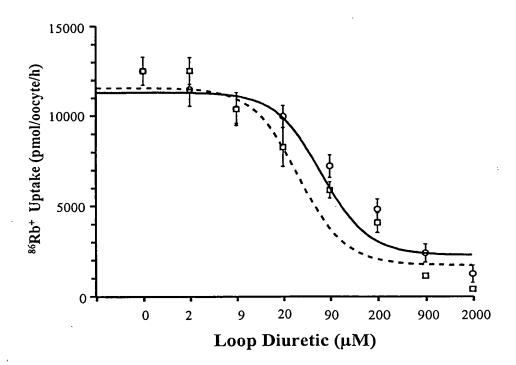
Title: Purified and Isolated Potassium-Chloride Cotransporter Nucleic Acids and Polypeptides and Therapeutic and Screening Methods Using Same cant(s): Mount et al. ley Docket No.: 1242/26/2

Figure 15



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Figure 16



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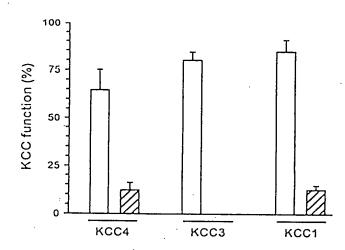
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Extracellular Osmolarity

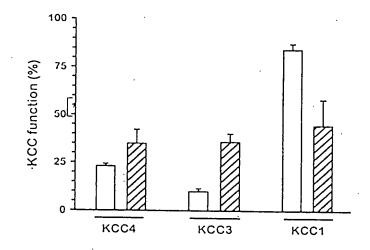
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Nucleic Acids and Polypeptides and Therapeutic and
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Figure 18

A) DIDS (100 μM)



B) DIOA (100 μM)



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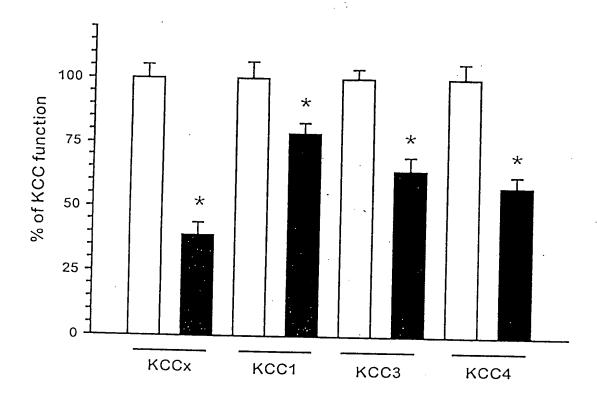


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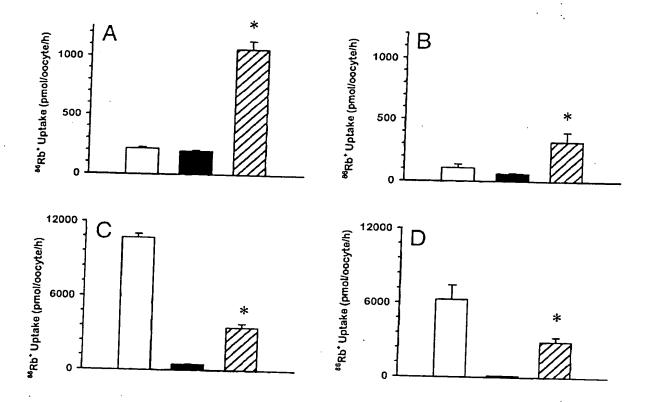
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Purified and Isolated Potassium-Chloride Cotransporter Nucleic Acids and Polypeptides and Therapeutic and Screening Methods Using Same (s): Mount et al.

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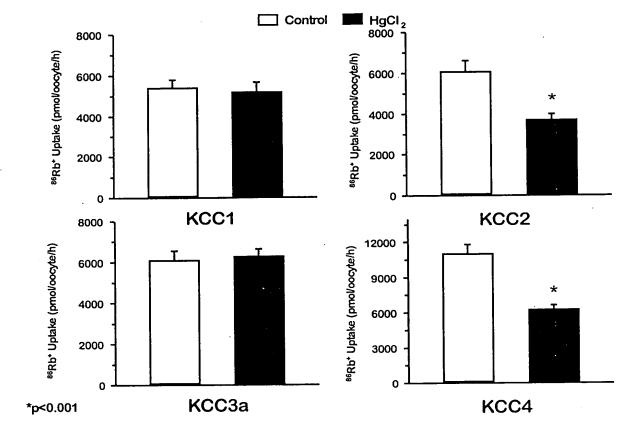
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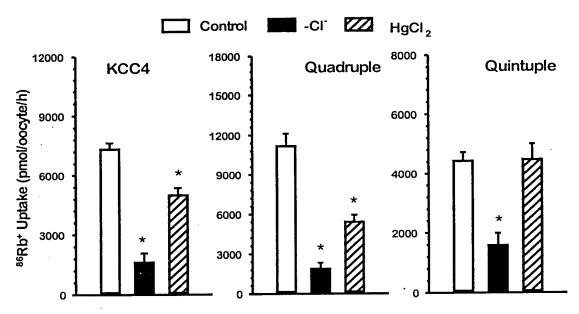
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Attorney Docket No.:
Figure 21



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Figure 22

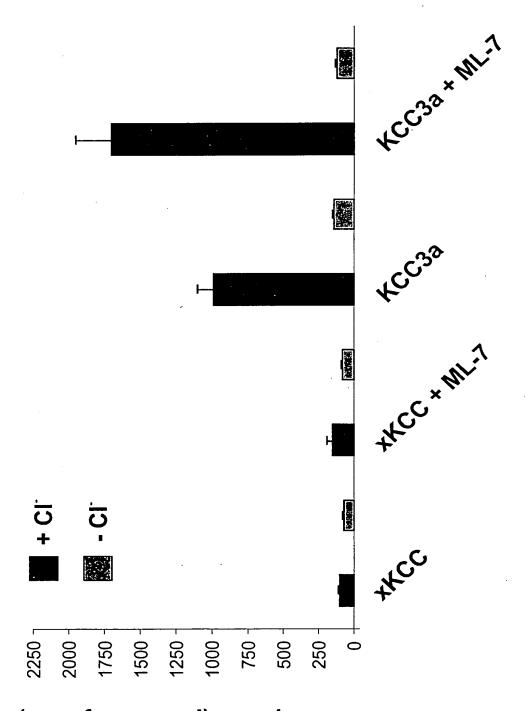


*p<0.01 vs control

Figure 23

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Mount et al.

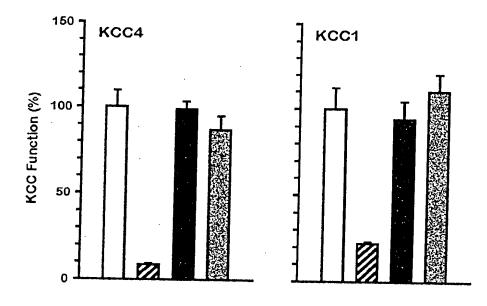
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Title: Purified and Isolated Potassium-Chloride Cotransporter
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Screening Methods Using Same
cant(s): Mount et al.
rney Docket No.: 1242/26/2

Figure 24

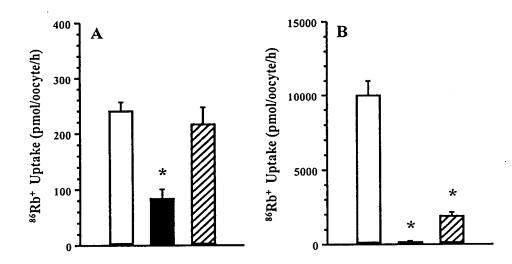


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Nucleic Acids and Polypeptides and Therapeutic and
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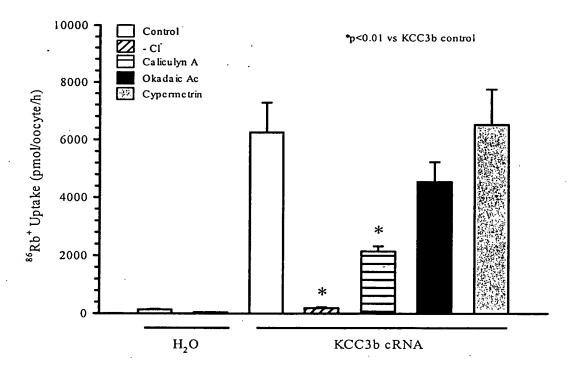
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Figure 25



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Figure 26



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Figure 27

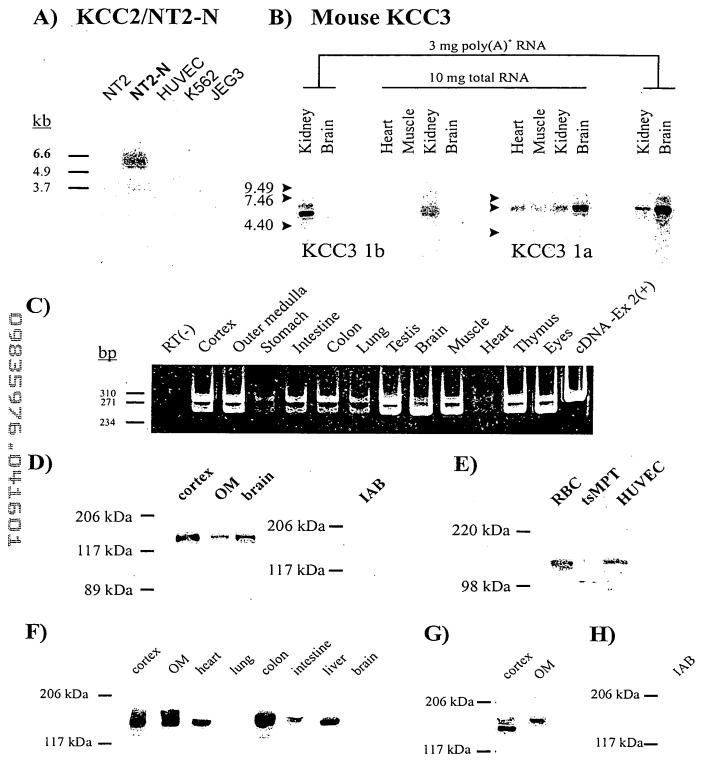
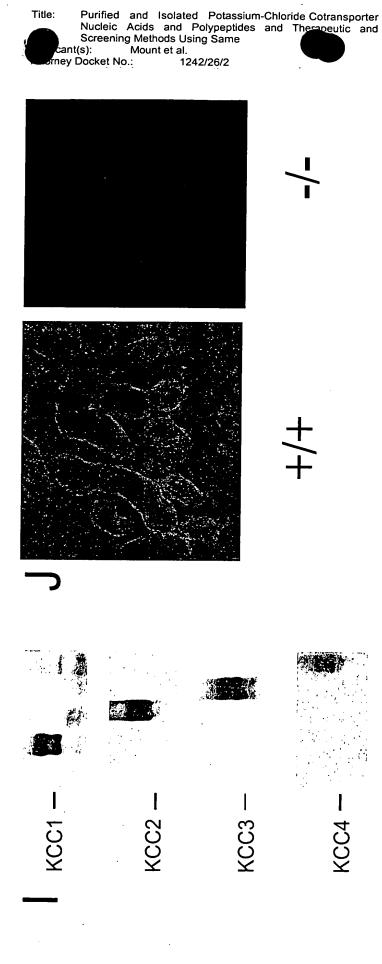
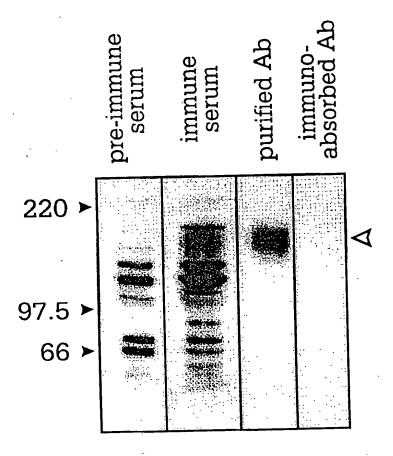


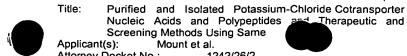
Figure 27 (cont.)



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Figure 28





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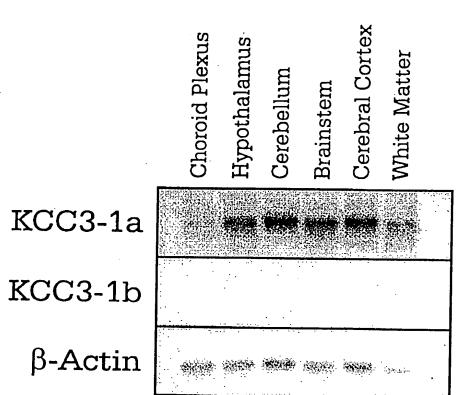
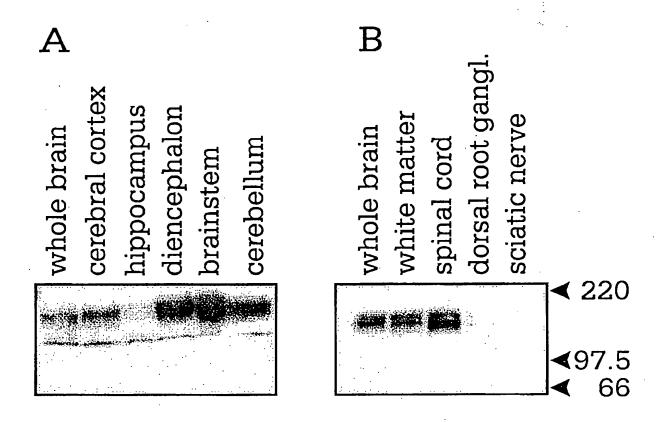
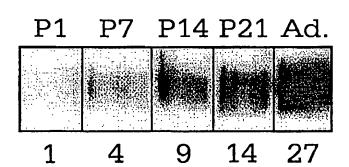


Figure 29

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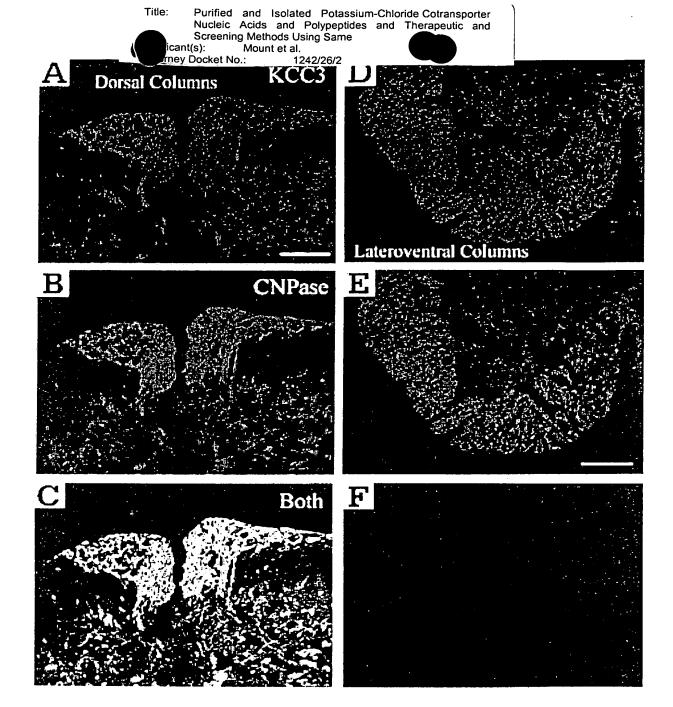


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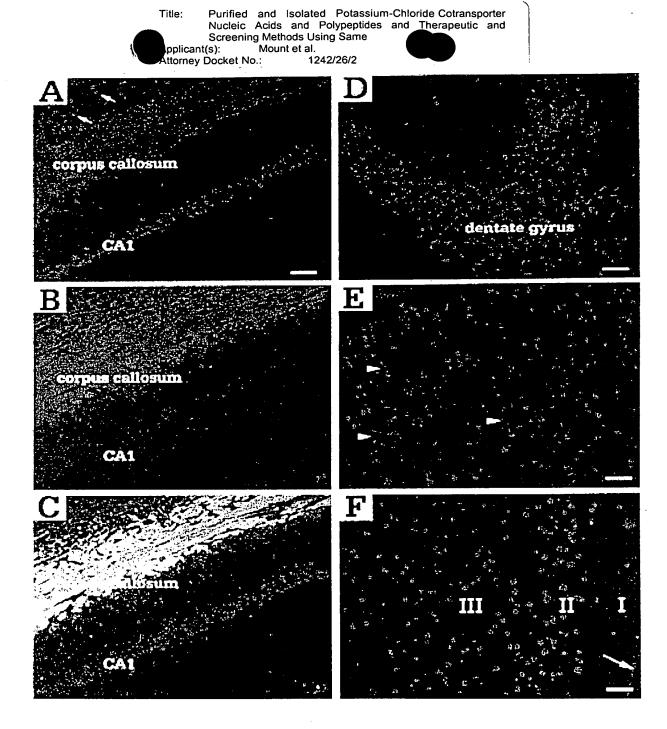


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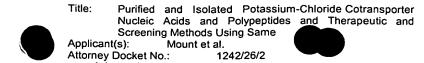
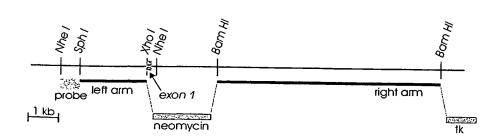
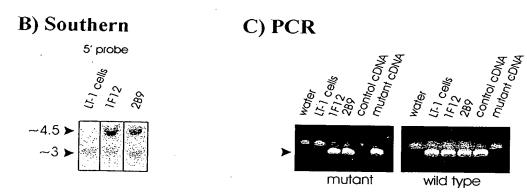


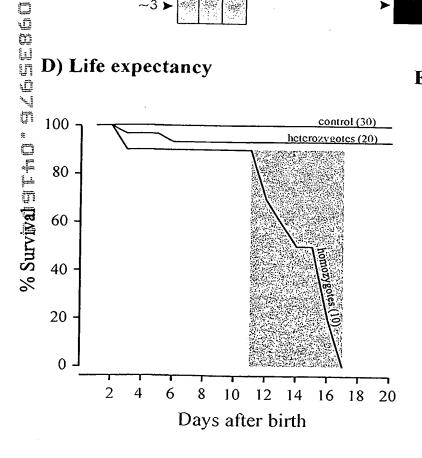
Figure 33 A) Targeting strategy

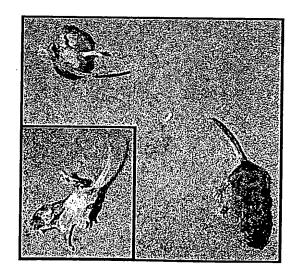




D) Life expectancy

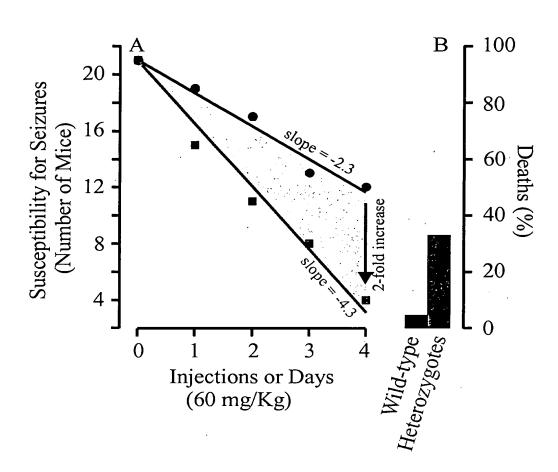
E) Seizure disorder





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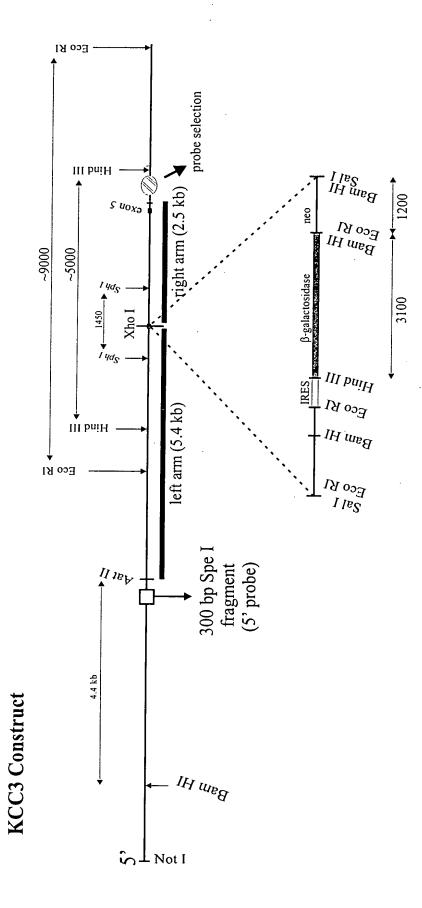
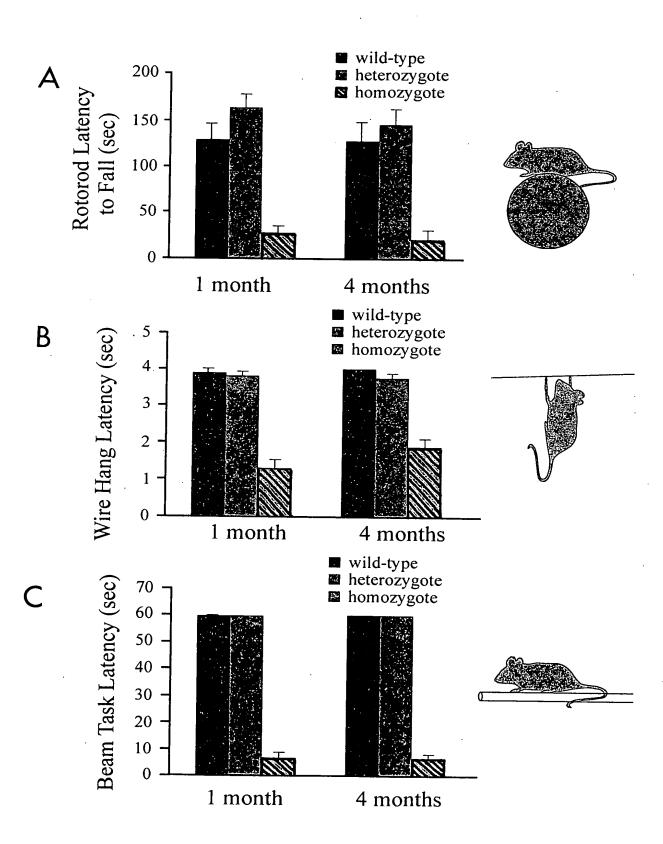


Figure 35

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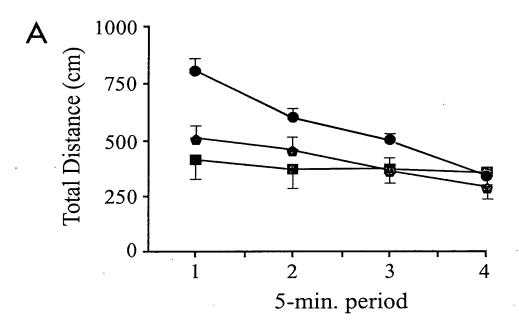
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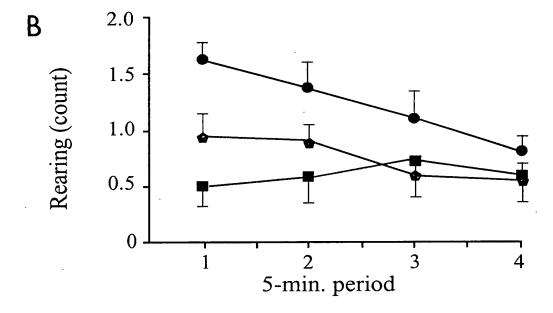


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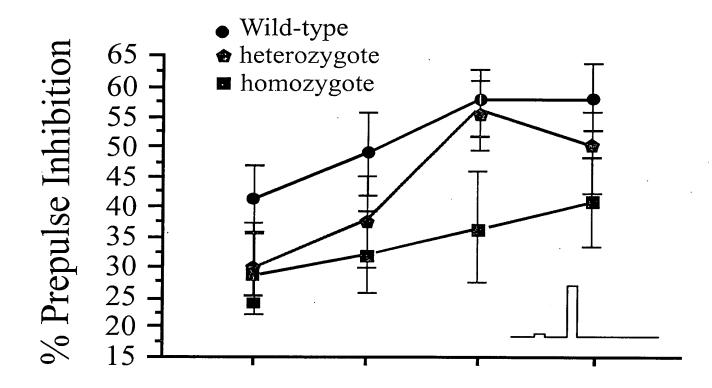
Figure 37





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Figure 38



Title: Purified and Isolated Potassium-Chloride Cotransporter Nucleic Acids and Polypeptides and Therapeutic and Screening Methods Using Same cant(s): Mount et al.

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Figure 39

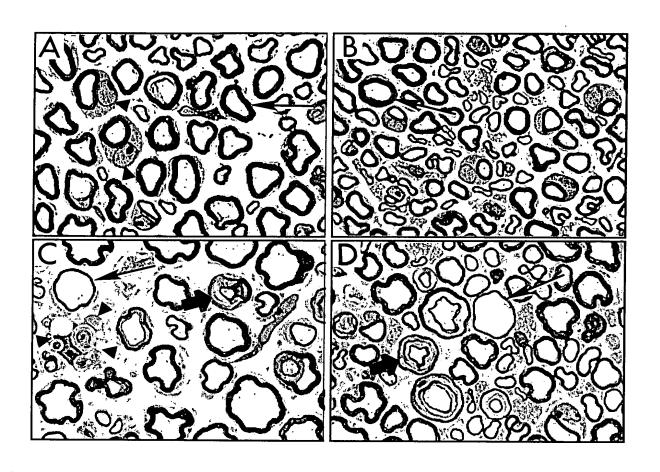
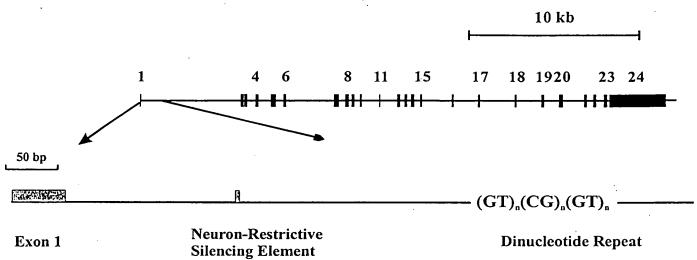


Figure 40



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Sequence of the hKCC2 dinucleotide repeat in several individuals:

Sample 1: Allele A $(GT)_{18} (GC)_7 (AT)_1 (GT)_4 (GC)_1 (GT)_{11} / Total = .84$

Allele B $(GT)_{16} (GC)_5 (AT)_1 (GT)_5 (GC)_1 (GT)_9 / Total = 74$

Sample 2: Allele A $(GT)_{18} (GC)_4 (AT)_2 (GT)_4 (GC)_2 (GT)_{11} / Total = 82$

Sample 3: Allele A $(GT)_{16}(GC)_6(AT)_1(GT)_4(GC)_1(GT)_{11} / Total = 78$

Allele B $(GT)_{14} (GC)_5 (AT)_1 (GT)_4 (GC)_1 (GT)_{11} / Total = 72$

Sample 4: Allele A $(GT)_{19} (GC)_6 (AT)_2 (GT)_4 (GC)_2 (GT)_{10} / Total = 86$

Allele B $(GT)_{17} (GC)_7 (AT)_2 (GT)_4 (GC)_2 (GT)_{10} / Total = 84$

Sample 5: Allele A $(GT)_{17} (GC)_6 (AT)_2 (GT)_4 (GC)_1 (GT)_{10} / Total = 80$

Allele B $(GT)_{16} (GC)_6 (AT)_2 (GT)_3 (GC)_2 (GT)_{10} / Total = 78$

Sample 6: Allele A $(GT)_{15} (GC)_6 (AT)_1 (GT)_4 (GC)_1 (GT)_{11} / Total = 76$

Allele B $(GT)_{16} (GC)_{5} (GT)_{1} (AT)_{1} (GT)_{4} (GC)_{1} (GT)_{11} / Total = 78$

Sample 7: Allele A $(GT)_{16} (GC)_4 (GT)_1 (AT)_1 (GT)_5 (GC)_1 (GT)_{10} / Total = 76$

Figure 41